

SECTION 02281 - SOIL TREATMENT FOR TERMITE CONTROL

This specification is intended for use with new construction, not retreatment of existing facilities.

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

As specified in Section 00700.

1.02 GENERAL REQUIREMENTS

- A. Soil shall be treated against subterranean termites by a pest control operator licensed by the Hawaii State Pest Control Board in Branch #3 and certified as a commercial applicator under the Hawaii Pesticide Law by the Hawaii State Department of Agriculture in category 7b.
- B. The Contractor shall notify the Engineer at least one day before application of chemicals.
- C. A totalizing meter shall be provided to determine application rates and to indicate the total volume of pesticide applied in U.S. gallons. The meter shall be no more than five feet from the applicator at all times.
- D. Pumping equipment shall be a type normally used and be capable of pumping the working solution in a manner accepted and practiced by the pest control industry.

1.03 SUBMITTALS

The Contractor shall submit to the Engineer for approval 6 copies of the label for the chemical he proposes to use.

1.04 GUARANTEE

- A. The Contractor shall furnish a written warranty in 3 copies to the State of Hawaii stating that:
 - 1. The chemical concentration, rates and method of application complied with these specifications;
 - 2. The effectiveness of the treatment is guaranteed for a period of not less than two (2) years from the date of final application of the treatment;

3. All necessary repairs of damages resulting from subterranean termite infestation within a period of one (1) year from the date of project acceptance will be made at the Contractor's own expense up to a total cost of \$5,000.00 as verified through cost breakdown in accordance with Section 8.4(b) "Force Account Work" of the General Conditions and submitted to the Engineer; and
4. If subterranean termite infestation should occur through the treated area within the two (2) year guarantee period, the soil shall be re-treated to exterminate all infestation without cost to the State of Hawaii as stipulated below. The application rates shall be as given by the label of the chemical being used. All corrective treatments shall be performed to at least 10 feet around each visible subterranean termite activity.
 - a. Working pressure while applying treating solution shall be held to that which is applicable to and safe under the conditions at the site being treated.
 - b. Drill one hole per block along one course above adjacent grade of hollow tile walls which extend below grade, and treat at a rate consistent with the pesticide label.
 - c. Remove carpets from areas being treated.
 - d. Drill and treat through all interior concrete floors, along both sides of all partitions and walls, and all cracks and expansion joints according to label directions. Drill holes through concrete slab shall be 1/2" or 9/16" dia. and spaced not more than 18 inches apart.
 - e. Drill one hole at each plumbing or utility penetration through ground floor slab and treat according to label instructions.
 - f. Patch drill holes with cement/concrete to full depth of slab thickness and refinish walls/floors as necessary to prevent any backflow and to restore original appearance.
 - g. Re-install carpets as applicable / necessary. Installation shall be done by a competent commercial carpet installer.
 - h. Replace any finish/finish materials which

are contaminated by spilled chemicals.

5. The above-ground areas infested with subterranean termites shall be treated as appropriate with a proven, effective insecticide to eliminate those termites.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Chemicals shall be aqueous solutions of Type I repellent termiticides such as Prelude, **Dragnet SFR**, Demon TC, or Prevail FT **or the Type II non-repellant termiticide Premise 75. The chemicals** shall be used in accordance with the labels and provisions related to the use of those pesticides as adopted by the Hawaii Pesticide Law, Chapter 149A, HRS, and the Federal Insecticide, Fungicide and Rodenticide Act.

The Type II non-repellent termiticide Dursban TC shall not be used.

PART 3 - EXECUTION

3.01 APPLICATION AND RATES

- A. The solution shall be applied uniformly and at the **maximum** rates **permitted** on the label for the chemical being used.
- B. **Treatment shall include the provision of** vertical barriers as stated on the product label. **Treatment shall extend down to the top of the footing.**
- C. Whenever possible, the solution shall be applied not more than 24 hours before the pouring of concrete over the affected area.

Where a treated area that is not scheduled to be covered with a moisture barrier in the finished construction (e.g. lanai area) cannot be covered with a poured concrete slab the same day, the area shall be protected with a waterproofing covering such as polyethelene sheeting.

- D. The solution under slabs shall be applied after backfill has been completed and rough plumbing and other utility lines have been installed and just prior to the placement of the **Basaltic Termite Barrier (BTB) material, where specified,**

and moisture barrier. The treatment shall be applied to dry material whenever possible, but in any case shall not be applied under conditions during which the soil does not readily absorb the solution.

END OF SECTION